# Work Order ID 48385

D

June 26, 2009 12:38:34 PM

Item ID:

D3560-041

**Revision ID:** 

Item Name:

Arm Weldment

**Start Date:** 

15/07/2009

Start Qty: 8.00

**Required Date: 03/08/2009** 

Req'd Qty: 8.00

Reference:

**Approvals:** Process Plan:

QC:

Operation

**Description** 

**Revision Nbr** 

Date:

Date:

SPC (Y/N):

**Tooling:** 

0.00

0.00

0.00

0.00

& Dwg D3560 Rev:

Accept

Set Up/

**Run Hours** 

Draw Number

**Cust Item ID:** 

**Customer:** 

Rev.

Date:

Date:

Draw Plan Code

Accept Qty

Reject Qty

Number

Stamp

Draw Nbr D3560

Sequence ID/

Work Center ID

Rev D

Bandsaw

Jeaspa Bandsaw

**BAND SAW** 

Memo

HAAS CNC VERTICAL MACHINING #1

1- Mill as per Folio FA693 Rev:

Cut blanks 16.750" long

110

120

QC

HAAS 1

HAAS CNC vertical machine #1

QC2- Inspect parts off machine FAI/FAIB

Memo

Memo

0.00

Page 1

Setup Start



Run

Start

Stop

Reject

Insp.

2<sub>€</sub>C'sink

0.196" hole on manual mill as per dwg D3560 3-Deburr per dwg D3560

0.00

**Quality Control** 

## Work Order ID 48385

June 26, 2009 12:38:34 PM

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D3560-041

**Revision ID:** D

Item Name:

**Start Date:** 

15/07/2009

Arm Weldment

Start Qty: 8.00

Reg'd Qty: 8.00 **Required Date: 03/08/2009** 



Accept



Setup

Start

Stop



**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

**Process Plan:** 

QC:

Date: Date:

**Tooling:** 

SPC (Y/N):

Date:

Date:

Start Run

Stop



Sequence ID/ **Work Center ID** 

130

QC

Quality Control

Operation **Description** 

OC8- Inspect parts - second check

Memo

Set Up/ **Run Hours** 

0.00

0.00

Draw Number

Draw Plan Rev. Code

Accept Qty

Reject **Qty** 

(see other w/o)

Reject Number Stamp

Insp.

Large Fab Large Fab

140

150

Large Fab

Memo

0.00

0.00

1-Weld assembly as per dwg D3560: STEP: 11- clean material (buff bracket and bottom of arm with blue pad ). 2- set up bracket and arm on jig 3- preheat bracket and arm with torch 14- clean before welding with brush 15- set up

machine to 135 amps: 6- weld across

QC5- Inspect part completeness to step on W/O

27 Sioloul.,

Memo

Quality Control

Page 3

Item ID:

D3560-041

**Revision ID:** 

D

Item Name:

Arm Weldment

**Start Date:** 

**Required Date: 03/08/2009** 

15/07/2009

Start Qty: 8.00

Req'd Qty: 8.00



Accept

Setup Start

Stop

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

QC:

Date: Date: **Tooling:** 

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Sequence ID/ **Work Center ID** 

160

Quality Control

Operation Description

QC9- Inspect visual per QSI004- Fusion Welds

Memo

Set Up/ **Run Hours** 

0.00

0.00

Draw Number

Draw Rev.

Plan Accept Qty Code

Reject Qty

Reject Number

Insp. Stamp

10.01.07

(3)

170

HandFinish

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

BR 10-01-11

Hand Finishing

QC3- Inspect Part Finish

0.00

SAD 10-01-11

180

QC

Quality Control

Memo

Memo

June 26, 2009 12:38:34 PM

Page 4

Item ID:

D3560-041

D

**Revision ID:** 

Item Name: **Start Date:** 

Arm Weldment

15/07/2009

Start Oty: 8.00 **Required Date: 03/08/2009** 

Req'd Qty: 8.00



Accept



Setup Start

Stop



**Cust Item ID: Customer:** 

Draw

Number

Reference:

Approvals:

**Process Plan:** 

QC:

Date: Date: **Tooling:** 

SPC (Y/N):

Date:

Date:

Draw

Reject



Sequence ID/

Work Center ID

190

Small Fab

Small Fab

Operation Description

Small Fab

Set Up/ **Run Hours** 

0.00

0.00

1-Press bushing in D3560 arm per dwg D3562

Run

Start

Stop

Memo

Qty Rev. Code

Plan

Qty Number

Reject

Insp. Stamp

200

**Quality Control** 

QC5- Inspect part completeness to step on W/O

2) Scolo1/13

Accept

Identify as per dwg & Stock Location:

SAD 10-01-14

8

Memo

Memo

0.00

Packaging Packaging

210

#### Work Order ID 48385

June 26, 2009 12:38:34 PM

Item ID:

D3560-041

**Revision ID:** D

Item Name:

Arm Weldment

QC:

**Start Date:** 

15/07/2009

Start Qty: 8.00

**Required Date: 03/08/2009** 

Req'd Qty: 8.00

**Operation** 

Description



Accept



Setup Start

Stop



**Cust Item ID:** 

**Customer:** 

Draw

Number

Reference:

**Approvals:** 

**Process Plan:** 

Date:

Date:

**Tooling:** 

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Date:

Draw

Rev.

Plan

Code

Run Start

Qty

Stop



Sequence ID/ **Work Center ID** 

220

QC

Memo

QC21- Final Inspection - Work Order Release

0.00

Accept

Qty

Reject Reject Number

Insp. Stamp

Quality Control

0.00

10/01/15/5) MF 10-1-15

## **Picklist Print**

June 26, 2009 12:38:33 PM

Work Order ID: 48385

Parent Item:

D3560-041RevD

Parent Item Name: Arm Weldment

Comments:



Start Date: 15/07/2009

**Required Date:** 03/08/2009

Start Qty: 8.00

Required Qty: 8.00

	Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
	D2808RevB		Manufactured	No			100	Each	0.0000	8.0000	0.4	, ,	
	Bushing						B4	673	8		JS 10/	01/12	
/	M6061T6B0.500X05.00 0		Purchased	No			140	f	0.0000	11.7474		-	
											111408		
_ /	,6061-T6 Bar ,500 x 5.00 D3592-1RevB		Manufactured	No			190	Each	0.0000	8.0000	01		

B47015=6

## HE 10:01:05

Qty:

Each

8 Um:

Date: Ùser: Monday, 08/06/2009 9:24:21 AM

Julie Dawson

## **Process Sheet**

**Drawing Name** 

**Part Number** 

Material

**Due Date** 

**Drawing Number** 

**Project Number** 

**Drawing Revision** 

: ARM

: N/A

: D

: D3560041

: 15/06/2009

: D3560 REV D

Customer Job Number : CU-DAR001 Dart Helicopters Services

S.O. No. :

Type

: 48385

**Estimate Number** 

: 12578

P.O. Number

This Issue : 08/06/2009 Prsht Rev.

: NC

First Issue : // : 47863

**Previous Run** 

Written By

Checked & Approved By

Comment

07.05.24 : Est Rev:A New Issue

est rev B ECN 987 Est Rev:C

07.10.09 ECN1048 07-12-18

: MACHINED PARTS

EC

EC verified by: DD DD verified by: EC

**Additional Product** 

Job Number:



Seq. #:

M6061T6B0500X05000

Description:

6061-T6 Bar .500 x 5.00

Comment: Qty.:

1.4648 f(s)/Unit

Total: 11.7180 f(s)

6061-T6 Bar 0.50" x 5.00" Batch: 11 408

BAND SAW 2.0

BAND SAW

Comment: BAND SAW

Cut blanks 16.750" long

3.0

HAAS CNC VERTICAL MACHINING #1

HAAS1

Comment: HAAS CNC VERTICAL MACHINING #1

1- Mill as per Folio FA693 Rev: 4 & Dwg D3560 Rev:



2-C'sink 0.196" hole on manual mill as per dwg D3560

3-Deburr per dwg D3560

4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE



Page 1

Monday, 08/06/2009 9:24:21 AM Date: User: Julie Dawson **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: ARM** Job Number: 48385 Part Number: D3560041 Job Number: Seq. #: **Machine Or Operation:** Description: QC8 SECOND CHECK Comment: SECOND CHECK D35921 Plate 1.0000 Each(s)/Unit Total: 8.0000 Each(s) Comment: Qty.: Batch: 346891 = 2 347015 = 6 **Comment: LARGE FABRICATION RESOURCE 1** 1-Weld assembly as per dwg D3560 STEP: 1- clean material (buff bracket and bottom of arm with blue pad ) 2- set up bracket and arm on jig 4 3- preheat bracket and arm with torch 4- clean before welding with brush 5- set up machine to 135 amps / 6- weld across bottom and top ends 7- reheat with torch (65 deg C) 8- on one side weld from bottom to top half way 9- same for other side (half way) 10- from half way point weld the rest of the first side (ease off pedal near end) 11- same for remaining side (ease off pedal near end) QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP VISUAL WELDING INSPECTION **Comment: VISUAL WELDING INSPECTION** 

Dart Ae	Part Aerospace Ltd									
W/O:				WORK	ORDER CHANG	ES				
DATE	STEP		PROC	EDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		,								
							i.	ļ		
Part No	: D35	560-041 P	AR #:	○○	LGEFAR	NCR: Yes	No <b>DQ</b>	<b>A</b> :	_ Date: _	10-101-19
	Re	esolution: <del> </del>	wale	Disposition:	le-wok	QA: N/C	Closed:	*	<u> </u>	0(02/11
NCR: ]	9295		W	ORK ORDER N	ON-CONFORMA	ANCE (NC	R)			

NCR: 4	8385	W	ORK OR	DER NON-CONFORMANCE	E (NCR)			
DATE	STEP	Description of NC		Corrective Action Section B		Verification	Approval	Approval
DAIE		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
10.01.05	7.0	spot (bottom left corner)	/#	Lip Cut weld in spot of crack, clearly and rewelded. Per as 1004 1 part only.	fh 10.01.05	8,1		
		R.C. Process	Jasue 2	1 port only.		10/0/41	Nosice 2	100.01.05

NOTE: Date & initial all entries

Monday, 08/06/2009 9:24:21 AM Date: Julie Dawson User: **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: ARM** Job Number: 48385 Part Number: D3560041 Job Number: Seq. #: Machine Or Operation: Description: HAND FINISHING1 HAND FINISHING RESOURCE #1 10.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION Comment: INSPEC POWDER COAT/CHEMICAL CONVERSION D2808 Comment: Qty.: 1.0000 Each(s)/Unit Total: 8.0000 Each(s) Spacer batch: SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Press bushing in D3560 arm per dwg D3562 INSPECT WORK TO CURREN Complet: INSPECT WORK TO CURRENT STEP PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 . Identify and Stock Location: <u>しい</u>ら QC21 FINAL INSPECTION/W/O RELEASE Comment: FINAL IN PECTION/W/O RELEASE Job Completion

Dart Aerospace L	∟ta
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	•								
W/O:			WC	RK ORDER CHANG	ES	<del></del>			
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				•					
· · · · · · · · · · · · · · · · · · ·									
Part No	•	PAR #:	Fault Cate	jory:	NCR: Yes	No <b>DQ</b>	<b>A</b> :	Date:	
	Reso	olution:	Disposition	<b>:</b>	QA: N/C CI	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC		Corrective Action Section			cation		Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sect	ion C	Chief Eng	QC Inspector
									-

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	48385
Description: Arm	Part Number:	D3560-1
Inspection Dwg: D3560 Rev: D		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST							
		First Art	ticle	Proto	type		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Co	mments
Ø0.507	+0.000/-0.001	.5065					
Ø0.196	+0.005/-0.001	196					
Ø1.000	+0.010/-0.001	1.004	/				
0.500	+/-0.010	.494	/				
0.250	+/-0.010	- 250	/				
0.275	+/-0.010	, 274					•
0.188	+/-0.010	186					
2.000	+/-0.010	2.000	1				
1.700	+/-0.010	1.699	/,				
Ø0.385 x 100°	+/-0.010 x 0.5°	-380X108					
0.250 Deep	+/-0.010	249					
					!		. <u> </u>
_							AW.
		A . 424 . 4 4	$\perp a \theta$	, 	D-4-4-4		N//A
Measured by:	<u> </u>	Audited by	101		Prototype Ap	N/A	
Date:	9106P	Date	: 09/06/	09		Date:	N/A

Rev	Date	Change	Revised by Approved						
Α	07.01.17	New Issue P/O D3560-041	KJ/JLM						
В	07.06.13	Dimensions updated per Dwg Rev B	KJ/JLM 1,A						
С	08.07.24	Dwg Rev updated	KJ/DD 🛠						









